

## STORAGE SYSTEM WITH SYMMETRICAL MIRRORING

### **ABSTRACT**

A method for managing a data storage system includes  
5 copying data stored on a first storage subsystem to a second  
storage subsystem in an asynchronous mirroring process. A  
record is maintained on the second storage subsystem,  
indicative of locations at which the data have been updated on  
the first storage subsystem and have not yet been copied to  
10 the second storage subsystem. Upon receiving at the second  
storage subsystem, from a host processor, a request to access  
the data stored at a specified location on the data storage  
system, if the specified location is included in the record,  
the second storage subsystem initiates a synchronous transfer  
15 of the data at the specified location from the first storage  
subsystem.